

ARC-14970-1

Replacement Drawings
Sheet 1 of 11
App, SN: 10/789,049
NASA Docket No.: ARC-14970-1
Title: Intelligent Weather Agent
Inventor: Liljana Spirkovska
NASA POC: Vickie Kent (650) 604-0887

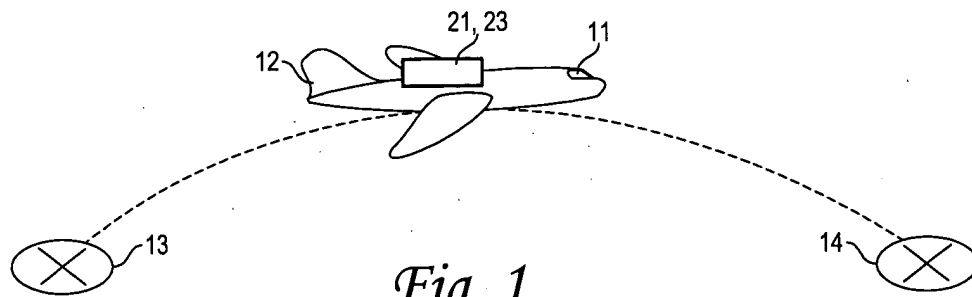


Fig. 1

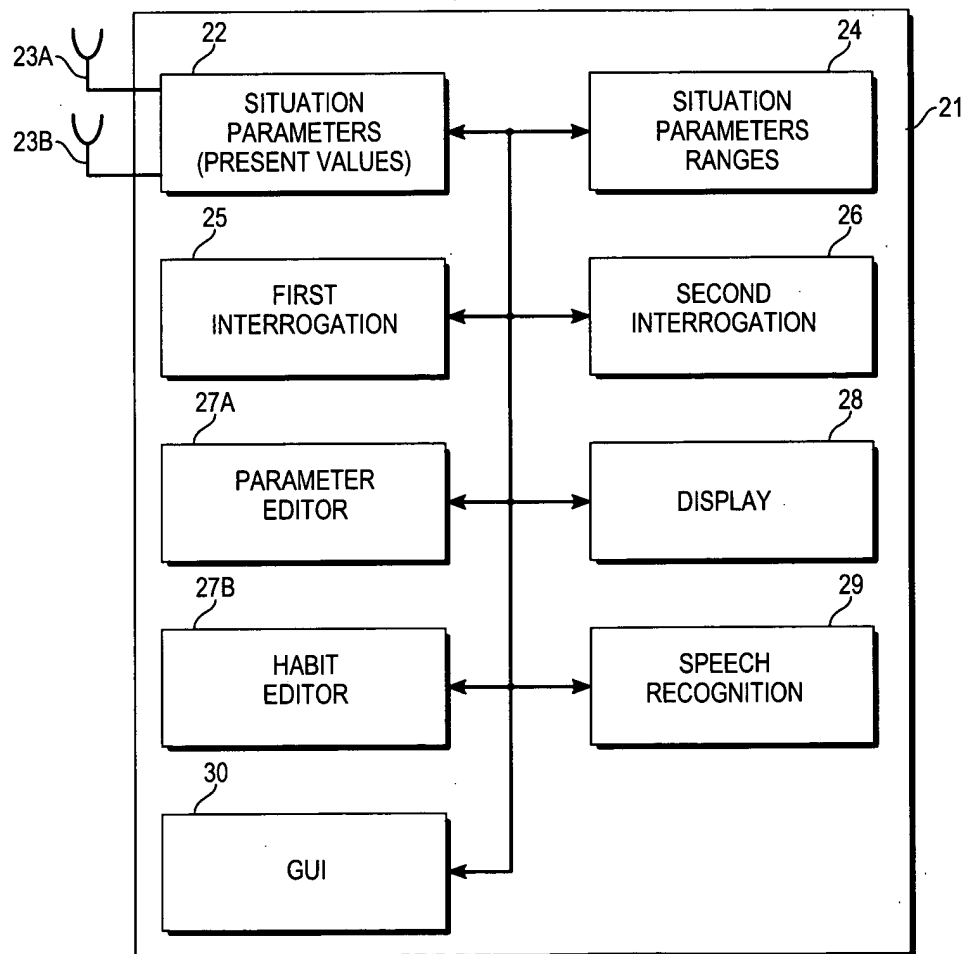


Fig. 2

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Fig. 3

Pilot Preferences

Volunteer or Query for Information About the Destination

Updated Destination METAR

<p>Surface Winds</p> <p><input type="checkbox"/> VOLUNTEER</p> <p><input type="checkbox"/> Verbal Message</p> <p><input type="checkbox"/> Visual Message</p> <p><input type="checkbox"/> Audio Alarm</p> <p><input type="checkbox"/> 25</p> <p>Maximum Surface Winds</p> <p><input type="checkbox"/> 12</p> <p>Close Temp - Dew Pt.</p> <p><input type="checkbox"/> Query</p> <p><input type="checkbox"/> Verbal Message</p> <p><input type="checkbox"/> Visual Message</p> <p><input type="checkbox"/> Audio Alarm</p> <p><input type="checkbox"/> 3000</p> <p>Minimum Ceiling</p> <p><input type="checkbox"/> VOLUNTEER</p> <p><input type="checkbox"/> Verbal Message</p> <p><input type="checkbox"/> Visual Message</p> <p><input type="checkbox"/> Audio Alarm</p> <p>Alternate Destination</p> <p><input type="checkbox"/> Near Destination</p>		<p>Surface Winds</p> <p><input type="checkbox"/> VOLUNTEER</p> <p><input type="checkbox"/> Verbal Message</p> <p><input type="checkbox"/> Visual Message</p> <p><input type="checkbox"/> Audio Alarm</p> <p><input type="checkbox"/> 25</p> <p>Maximum Surface Winds</p> <p><input type="checkbox"/> 12</p> <p>Close Temp - Dew Pt.</p> <p><input type="checkbox"/> Query</p> <p><input type="checkbox"/> Verbal Message</p> <p><input type="checkbox"/> Visual Message</p> <p><input type="checkbox"/> Audio Alarm</p> <p><input type="checkbox"/> 3000</p> <p>Minimum Ceiling</p> <p><input type="checkbox"/> VOLUNTEER</p> <p><input type="checkbox"/> Verbal Message</p> <p><input type="checkbox"/> Visual Message</p> <p><input type="checkbox"/> Audio Alarm</p> <p>Alternate Destination</p> <p><input type="checkbox"/> Near Destination</p>	
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Updated Destination TAF

<p>Surface Winds</p> <p><input type="checkbox"/> Volunteer Always</p> <p><input type="checkbox"/> Verbal Message</p> <p><input type="checkbox"/> Visual Message</p> <p><input type="checkbox"/> Audio Alarm</p> <p><input type="checkbox"/> 5</p> <p>Minimum Visibility</p> <p><input type="checkbox"/> Ceiling</p> <p><input type="checkbox"/> Volunteer Always</p> <p><input type="checkbox"/> Verbal Message</p> <p><input type="checkbox"/> Visual Message</p> <p><input type="checkbox"/> Audio Alarm</p> <p><input type="checkbox"/> 5000</p> <p>Minimum Ceiling</p> <p><input type="checkbox"/> Volunteer Always</p> <p><input type="checkbox"/> Verbal Message</p> <p><input type="checkbox"/> Visual Message</p> <p><input type="checkbox"/> Audio Alarm</p> <p><input type="checkbox"/> 20</p> <p>Maximum Surface winds</p> <p><input type="checkbox"/> 10</p> <p>Maximum Crosswind</p>		<p>Surface Winds</p> <p><input type="checkbox"/> Volunteer Always</p> <p><input type="checkbox"/> Verbal Message</p> <p><input type="checkbox"/> Visual Message</p> <p><input type="checkbox"/> Audio Alarm</p> <p><input type="checkbox"/> 5</p> <p>Minimum Visibility</p> <p><input type="checkbox"/> Ceiling</p> <p><input type="checkbox"/> Volunteer Always</p> <p><input type="checkbox"/> Verbal Message</p> <p><input type="checkbox"/> Visual Message</p> <p><input type="checkbox"/> Audio Alarm</p> <p><input type="checkbox"/> 5000</p> <p>Minimum Ceiling</p> <p><input type="checkbox"/> Volunteer Always</p> <p><input type="checkbox"/> Verbal Message</p> <p><input type="checkbox"/> Visual Message</p> <p><input type="checkbox"/> Audio Alarm</p> <p><input type="checkbox"/> 20</p> <p>Maximum Surface winds</p> <p><input type="checkbox"/> 10</p> <p>Maximum Crosswind</p>	
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Volunteer or Query for En-Route Information

<p>Altimeter Setting</p> <p><input type="checkbox"/> Volunteer Always</p> <p><input type="checkbox"/> Verbal Message</p> <p><input type="checkbox"/> Visual Message</p> <p><input type="checkbox"/> Audio Alarm</p> <p>Difference Required Prior to Notification</p> <p><input type="checkbox"/> 0.05</p> <p>Altimeter Setting (in Hg)</p> <p><input type="checkbox"/> Winds Aloft</p> <p><input type="checkbox"/> Volunteer Always</p> <p><input type="checkbox"/> Verbal Message</p> <p><input type="checkbox"/> Visual Message</p> <p><input type="checkbox"/> Audio Alarm</p> <p>Difference Required Prior to Notification</p> <p><input type="checkbox"/> 10</p> <p>More Adverse Winds Aloft (Kts)</p> <p><input type="checkbox"/> 25</p> <p>More Favorable Winds Aloft (Kts)</p>		<p>Altimeter Setting</p> <p><input type="checkbox"/> Volunteer Always</p> <p><input type="checkbox"/> Verbal Message</p> <p><input type="checkbox"/> Visual Message</p> <p><input type="checkbox"/> Audio Alarm</p> <p>Difference Required Prior to Notification</p> <p><input type="checkbox"/> 0.05</p> <p>Altimeter Setting (in Hg)</p> <p><input type="checkbox"/> Winds Aloft</p> <p><input type="checkbox"/> Volunteer Always</p> <p><input type="checkbox"/> Verbal Message</p> <p><input type="checkbox"/> Visual Message</p> <p><input type="checkbox"/> Audio Alarm</p> <p>Difference Required Prior to Notification</p> <p><input type="checkbox"/> 10</p> <p>More Adverse Winds Aloft (Kts)</p> <p><input type="checkbox"/> 25</p> <p>More Favorable Winds Aloft (Kts)</p>	
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Updated En-Route METARs

<p><input type="checkbox"/> Volunteer Always</p> <p><input type="checkbox"/> Verbal Message</p> <p><input type="checkbox"/> Visual Message</p> <p><input type="checkbox"/> Audio Alarm</p> <p><input type="checkbox"/> 5</p> <p>Minimum Visibility</p> <p><input type="checkbox"/> Updated En-Route TAFs</p> <p><input type="checkbox"/> Volunteer Always</p> <p><input type="checkbox"/> Verbal Message</p> <p><input type="checkbox"/> Visual Message</p> <p><input type="checkbox"/> Audio Alarm</p> <p><input type="checkbox"/> 4</p> <p>Minimum Visibility</p> <p><input type="checkbox"/> 5000</p> <p>Minimum Ceiling</p> <p>TAF/METAR correlation</p> <p><input type="checkbox"/> Volunteer Always</p> <p><input type="checkbox"/> Verbal Message</p> <p><input type="checkbox"/> Visual Message</p> <p><input type="checkbox"/> Audio Alarm</p>		<p><input type="checkbox"/> Volunteer Always</p> <p><input type="checkbox"/> Verbal Message</p> <p><input type="checkbox"/> Visual Message</p> <p><input type="checkbox"/> Audio Alarm</p> <p><input type="checkbox"/> 5</p> <p>Minimum Visibility</p> <p><input type="checkbox"/> Updated En-Route TAFs</p> <p><input type="checkbox"/> Volunteer Always</p> <p><input type="checkbox"/> Verbal Message</p> <p><input type="checkbox"/> Visual Message</p> <p><input type="checkbox"/> Audio Alarm</p> <p><input type="checkbox"/> 4</p> <p>Minimum Visibility</p> <p><input type="checkbox"/> 5000</p> <p>Minimum Ceiling</p> <p>TAF/METAR correlation</p> <p><input type="checkbox"/> Volunteer Always</p> <p><input type="checkbox"/> Verbal Message</p> <p><input type="checkbox"/> Visual Message</p> <p><input type="checkbox"/> Audio Alarm</p>	
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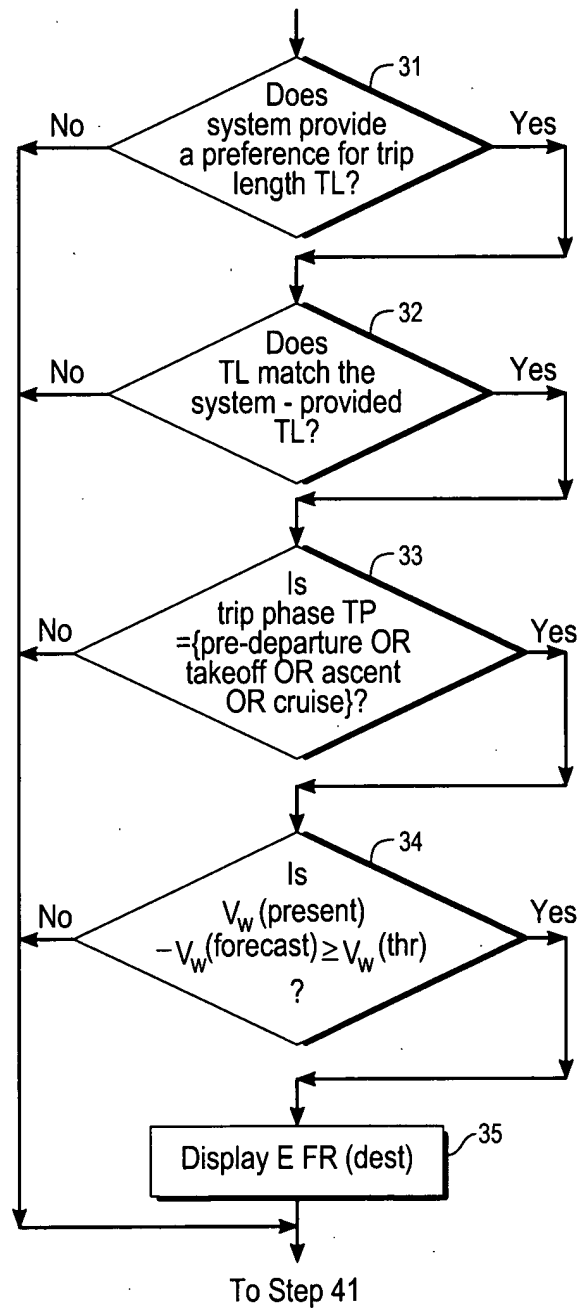


Fig. 4

ARC-14970-1

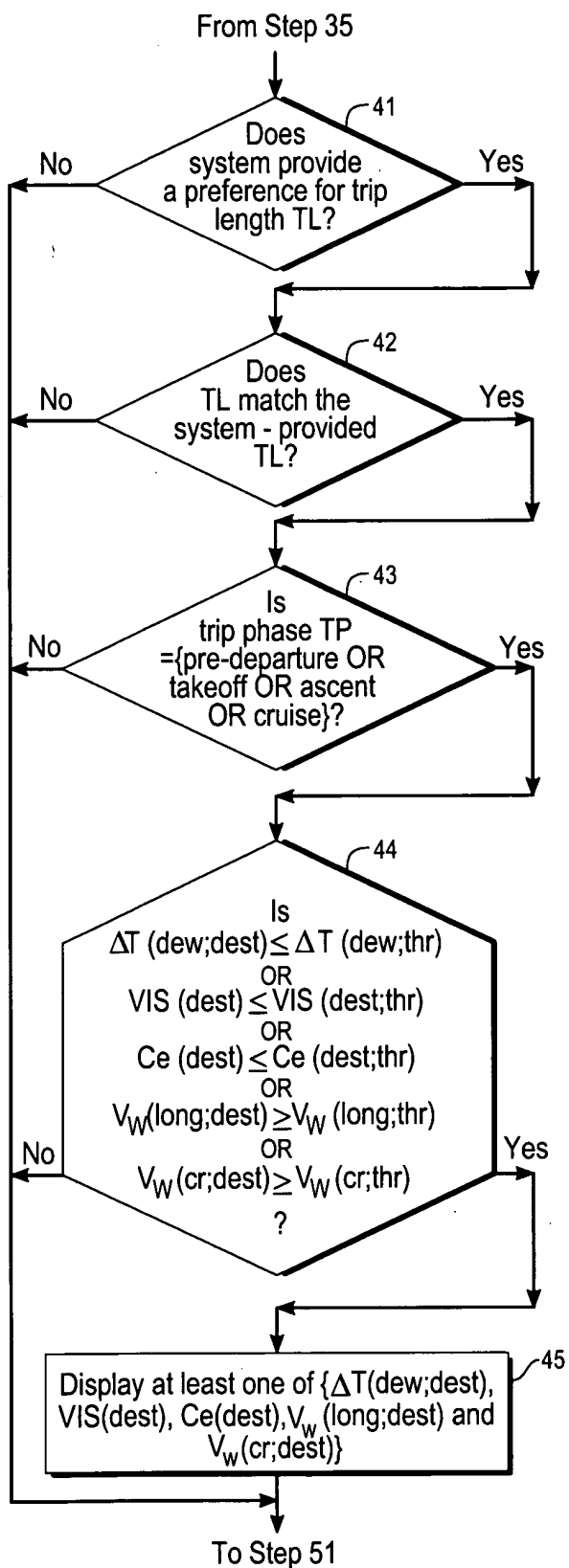


Fig. 5

ARC-14970-1

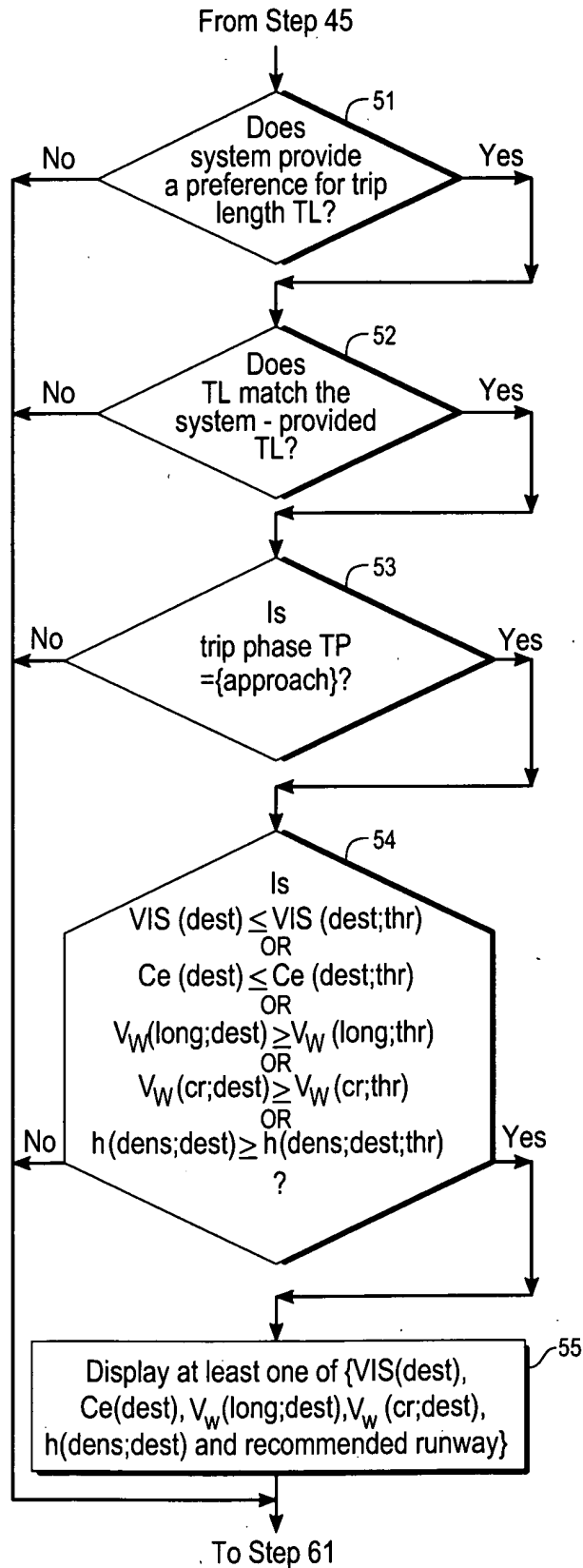


Fig. 6

ARC-14970-1

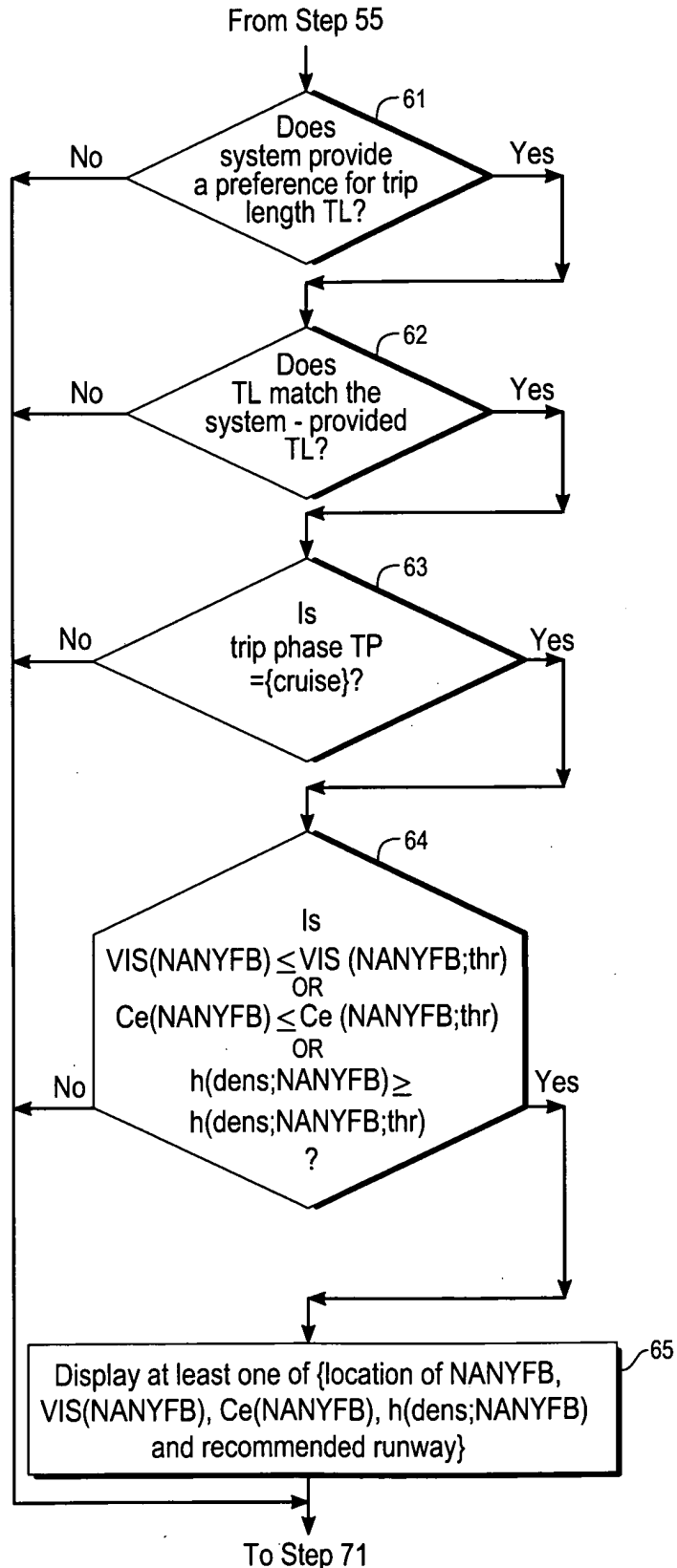


Fig. 7

ARC-14970-1

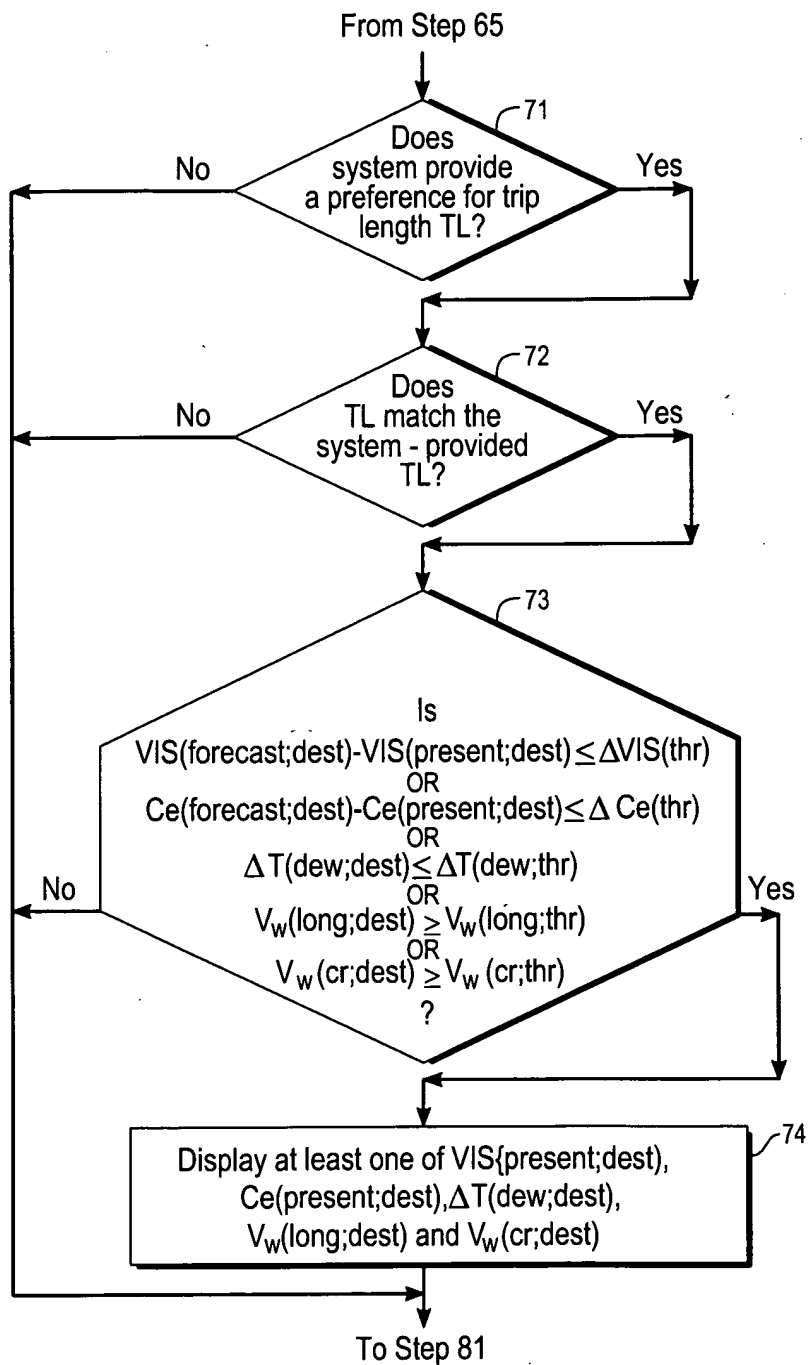


Fig. 8

ARC-14970-1

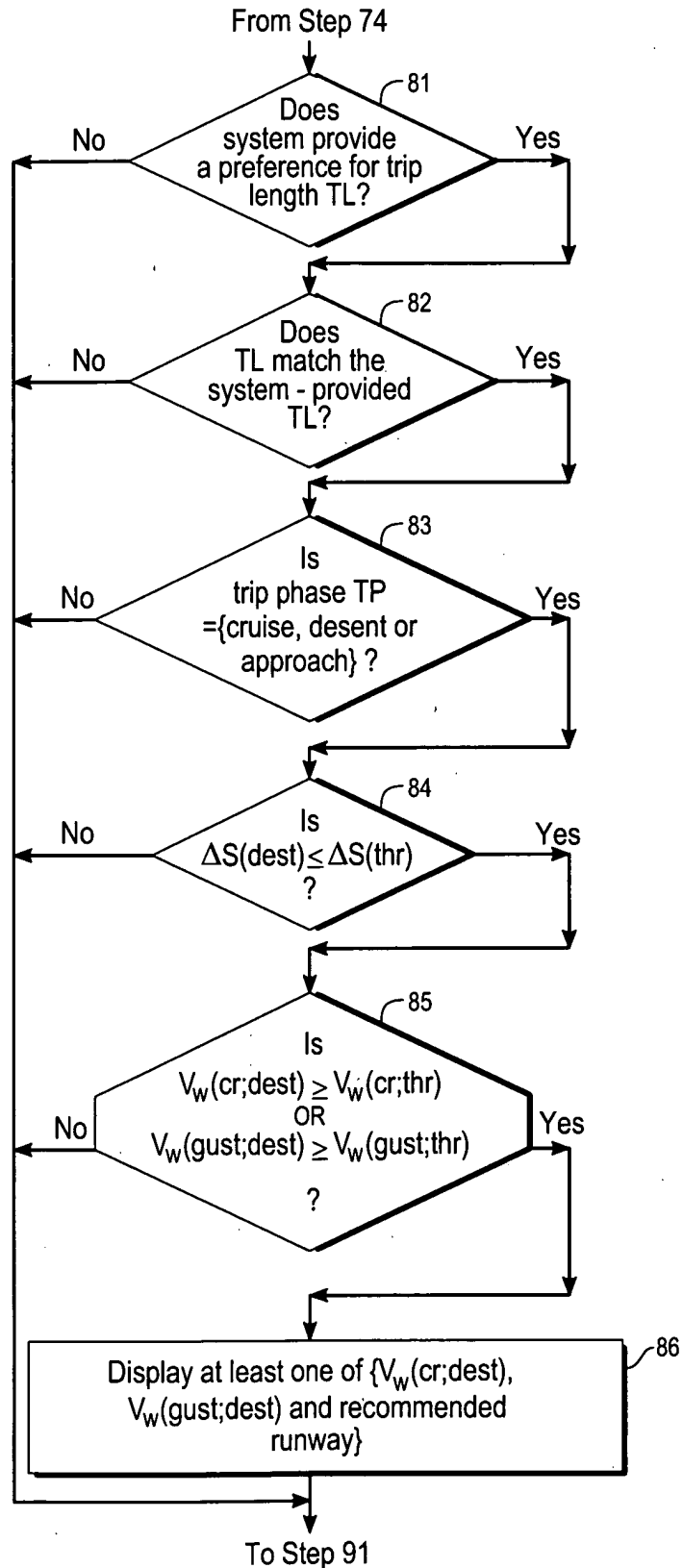


Fig. 9

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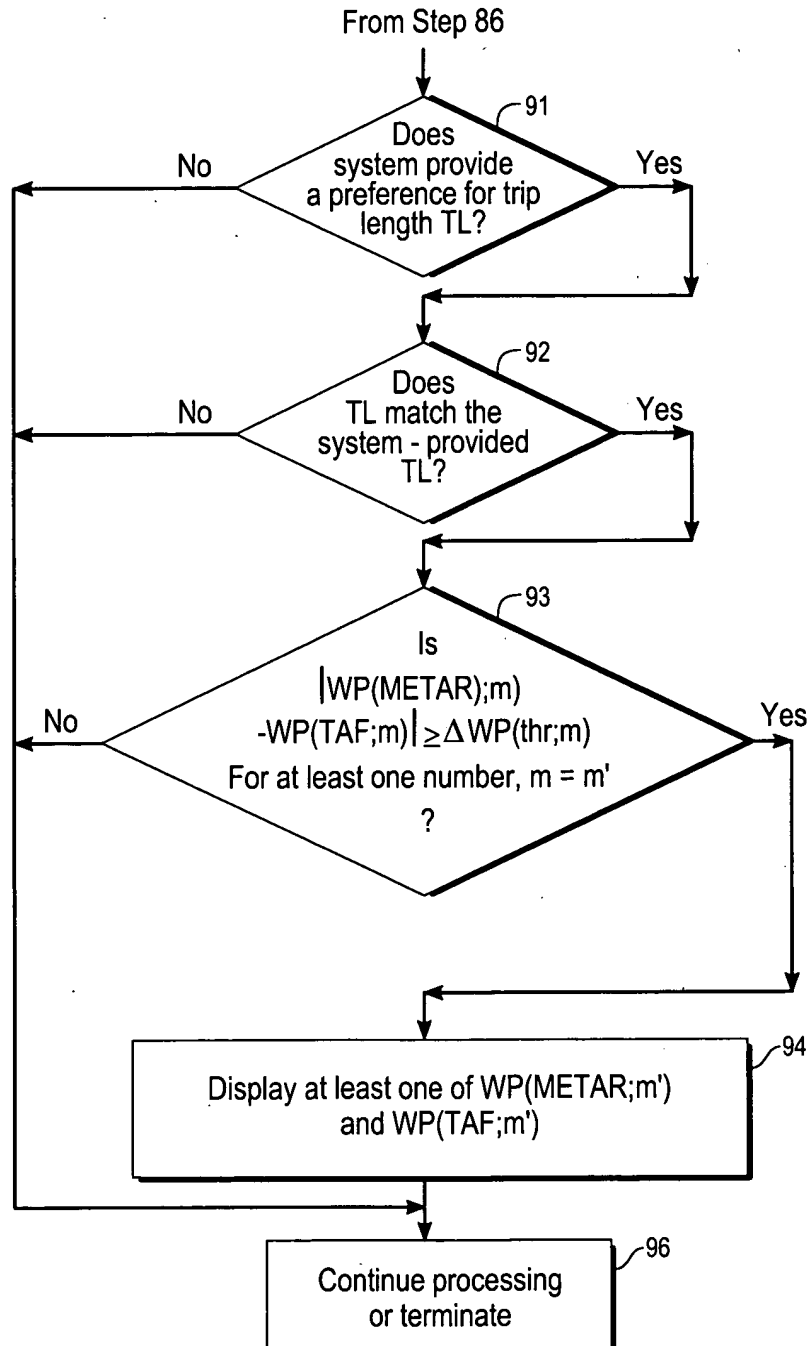


Fig. 10

ARC-14970-1

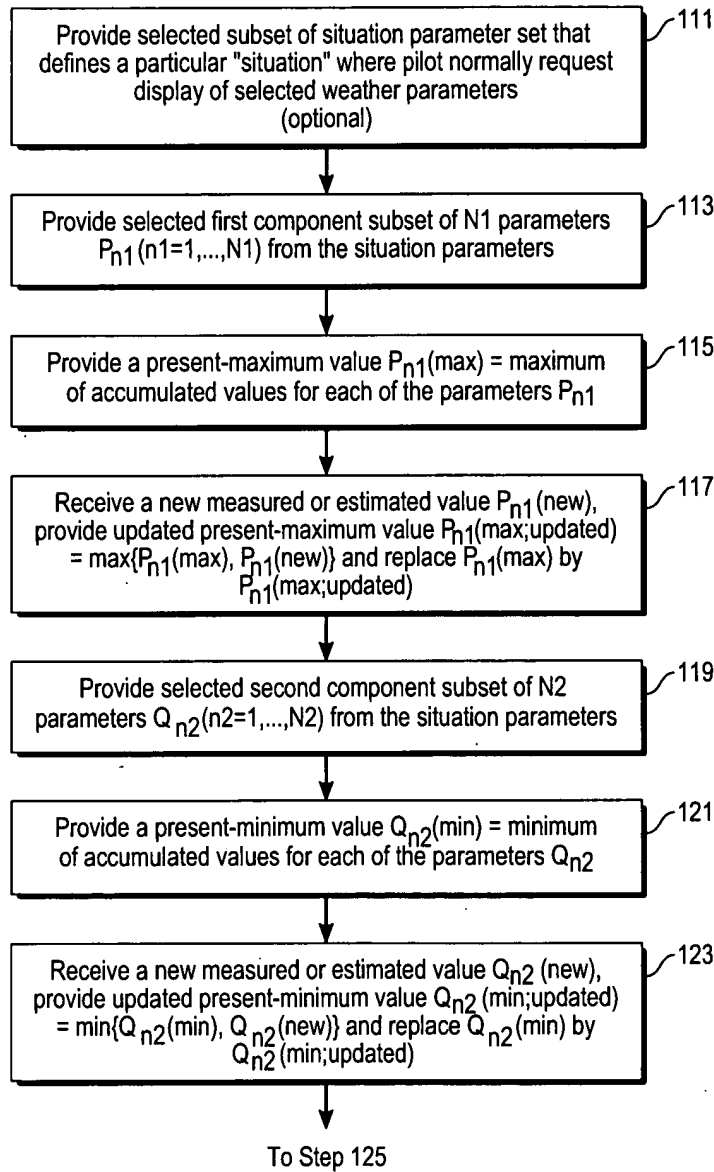


Fig. 11A

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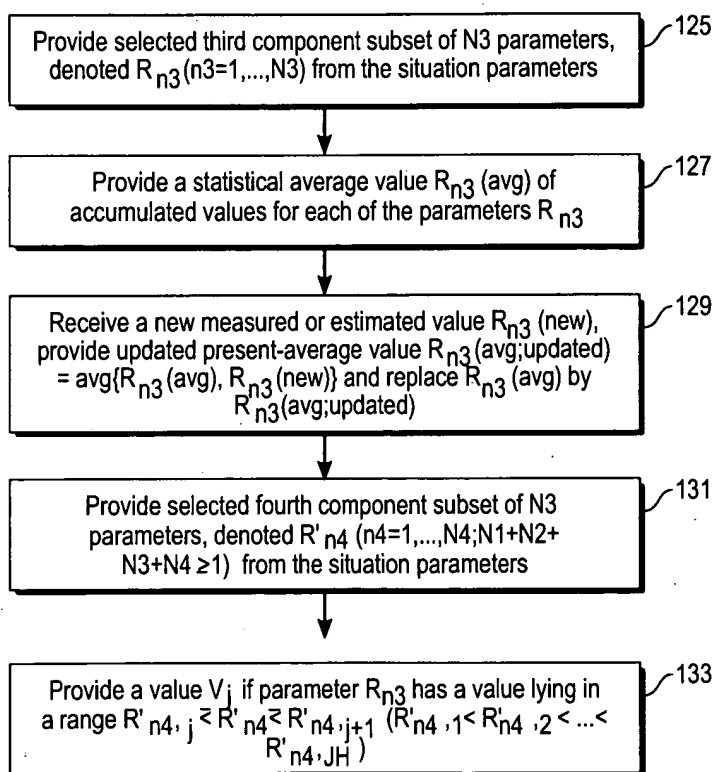


Fig. 11B